Proposed CVPIA Anadromous Fish Restoration Program Actions for the Delta for the period April 1, 1996 to March 31, 1997.

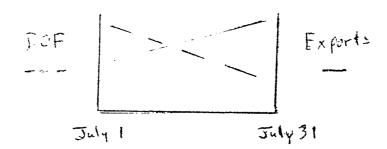
Sacramento-San Joaquin Delta

Supplemental Actions Using 1) modifications in CVP operations 2) use of CVPIA 3406(b)(2) dedicated water and 3) potentially CVPIA 3406 (b)(3) acquired water. (In order of priority).

- 1. Maintain a minimum objective ratio of Vernalis inflow to total CVP/SWP exports of the following:
 - 2:1 Critical
 - 3:1 Dry
 - 3:1 Below normal
 - 4:1 Above normal
 - 5:1 Wet

during the 30 day pulse flow period between April 1 and May 15.

- 2. Maintain at least 13,000 cfs daily flow in the Sacramento River at Freeport during May.
- 3. This action deals with the concept of ramping exports up and DOF down during the transitional month of July when the allowable E/I ratio goes from 35% to 65%. There are various ways to do this but we have not decided on an option.



4. Increase the level of protection targeted by the May and June X2 requirement to a 1962 level of development. This represents an increase in numbers of days when X2 is required at Chipps Island in Table A of the 1995 WQCP as described below.

	1962 LOD		IN WQCP	
PMI	MAY	JUNE	MAY	JUNE
500	0	0	0	0
750	0	0	0	0
1000	0	0	0	0
1250	0	0	0	0
1500	0	0	0	0
1750	I	0	0	0
2000	4	0	1	0
2250	13	1	3	0
2500	24	3	11	I
2750	29	7	20	2
3000	30	12	27	4
3250	31	18	29	8
3500	31	23	30	13
3750	31	26	31	18
4000	31	28	31	23
4250	31	29	31	25
4500	31	29	31	27
4750	31	30	3 1	28

PMI=Previous month index

5. Evaluate the survival index of CWT late-fall run in the Delta in the December-January period under two levels of percent of Delta inflow diverted (i.e., <35% and 50 to 65%) and when the Delta Cross Channel is closed. Each condition will last for 10 days.

- Operational Targets (No water cost using modifications in CVP/SWP operations in coordination with Cal Fed Ops Group as part of flexibility of Delta Agreement).
- 1. Close Delta Cross Channel (DCC) up to 45 days in the November through January period, when juvenile salmon enter the Delta or when flow, turbidity or other factors trigger salmon migration. Timing may be dependent on real-time monitoring. Gary Stern is working on this.
- 2. Make operational changes to minimize the probability of juvenile Chinook salmon migrating to the southern Delta from the central and western Delta when the DCC is closed in the November through January period. There is a need to work on this prior to fall. Relates to #5 below.
- 3. Maximize DCC closure in the May 21 through June 15 period when Sacramento River Chinook salmon are abundant, but keep open when Striped bass and other sensitive species are abundant in the lower San Joaquin River. Timing may be dependent on real-time monitoring to assure greatest overall fish protection. Fishery agency decision.
- 4. Maintain an average export/inflow ratio of no more than 45% during February in dry years by maintaining a ratio of 35-55% in the first two weeks of February and a ratio of 35% in the last two weeks of February, when winter-run Chinook salmon smolts should be more abundant. Dry years = 8 RI of between 1.0 to 1.5 maf; analysis completed by Cal Fed Ops-will implement in dry years.
- 5. Assist the CVP in achieving the AFRP fishery goals in the most efficient manner, by filling the CVP portion of San Luis Reservoir in the fall using SWP export facility, if capacity is available, and if it doesn't conflict with deliveries for refuge water supply or adversely impact sensitive estuarine species. Perry Herrgesell working on.
- 6. Minimize fish losses and predation at facilities by operating state and federal pumps interchangeably. Possibly power costs for pumping.

Fcb96.018

\$